

# Chapter 2: Multi-armed Bandits

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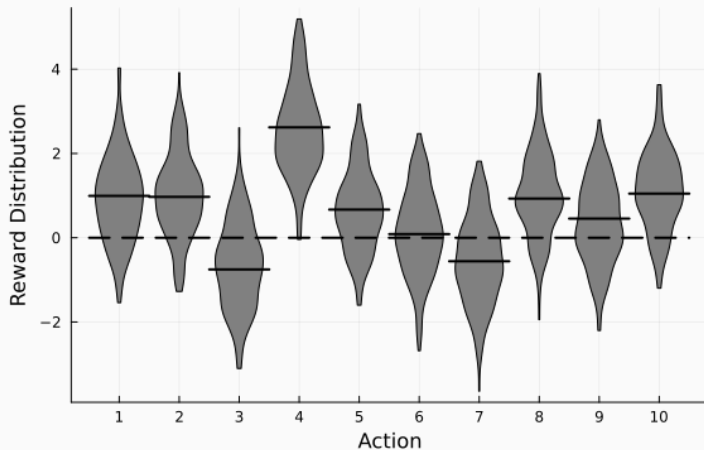
Gabe Sekeres

February 18, 2025

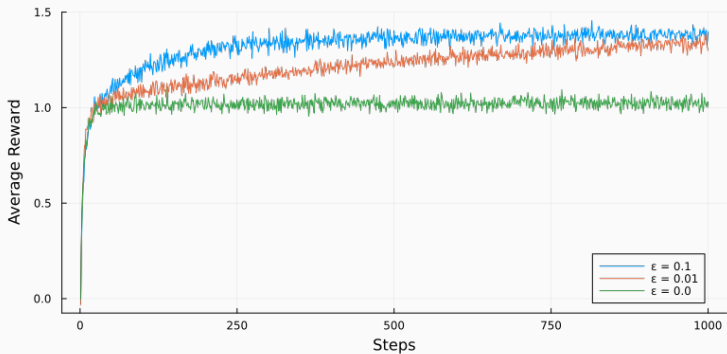
Cornell University



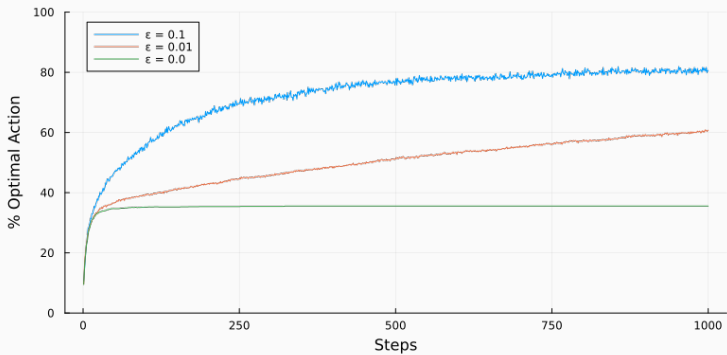
## Reward Distributions (fig. 2.1)



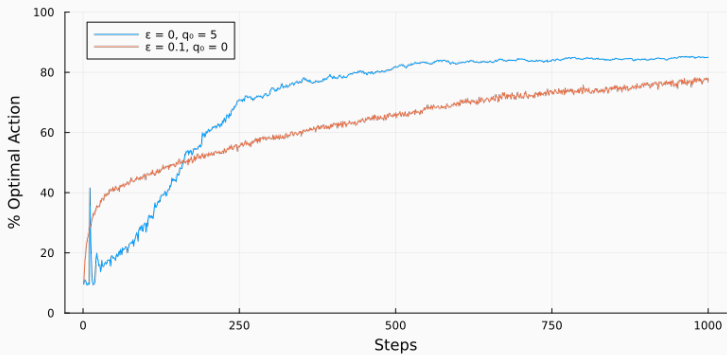
## Epsilon Reward Comparison (fig. 2.2a)



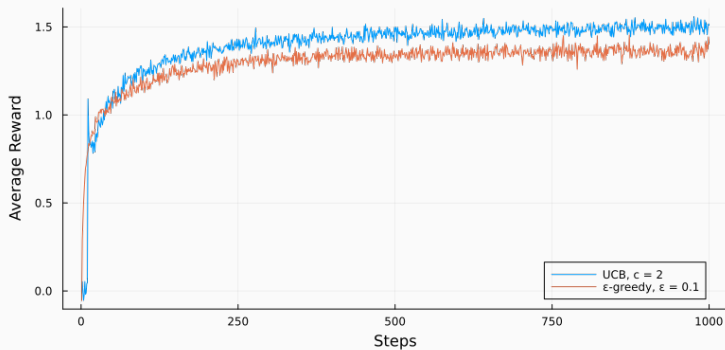
## Epsilon Action Comparison (fig. 2.2b)



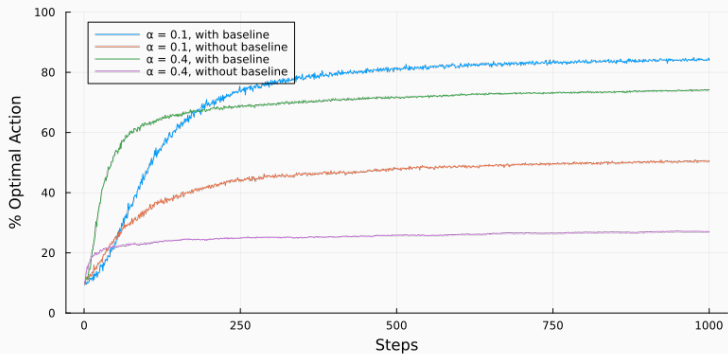
## Optimistic vs. Realistic (fig. 2.3)



## UCB vs. Epsilon (fig. 2.4)



## Gradient Baseline Comparison (fig. 2.5)





## Full Bandit Comparison (fig. 2.6)

